

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P31849-P0	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2003/009297	International filing date (day/month/year) 23 July 2003 (23.07.2003)	Priority date (day/month/year) 24 July 2002 (24.07.2002)
International Patent Classification (IPC) or national classification and IPC G07B 15/00, G01C 21/00, G08G 1/0969		
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>3</u> sheets, as follows: <div style="margin-left: 40px;"><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</div> b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <div style="margin-left: 40px;"><input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input checked="" type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application</div>

Date of submission of the demand 18 February 2004 (18.02.2004)	Date of completion of this report 23 November 2004 (23.11.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/009297

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ The international application as originally filed/furnished

☒ the description:

pages _____ 1-58 _____, as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

☒ the claims:

pages _____ 1, 7, 9, 11, 12, 16 _____, as originally filed/furnished
pages* _____, as amended (together with any statement) under Article 19
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

☒ the drawings:

pages _____ 1-30 _____, as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
☒ the claims, Nos. _____ 2-6, 8, 10, 13-15, 17 _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/JP 03/09297

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1, 7, 9, 11, 12, 16	YES
	Claims		NO
Inventive step (IS)	Claims	1, 7, 9, 11, 12, 16	YES
	Claims		NO
Industrial applicability (IA)	Claims	1, 7, 9, 11, 12, 16	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 2002-202141 A (Clarion Co., Ltd.), 19 July 2002, entire text; all drawings

Document 2: JP 2002-49945 A (Tokai Rika Co., Ltd.), 15 February 2002, entire text; all drawings

Document 3: JP 2000-311261 A (Mazda Motor Corporation), 7 November 2000, entire text; all drawings

Document 4: JP 2000-113249 A (Sanyo Electric Co., Ltd.), 21 April 2000, entire text; all drawings

Document 5: JP 2000-304555 A (Clarion Co., Ltd.), 2 November 2000, entire text; all drawings

Documents 1 to 5 do not set forth a navigation system, wherein a use setting means is provided which sets whether or not to use the automatic toll payment system on toll roads on the route set by the route setting means, and signals changing the state of use of automatic toll payment systems of an on-board device are transmitted to the on-board device based on the settings of said use setting means.

Moreover, said feature is novel and it would not be easy for a person skilled in the art to conceive of said feature.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No.

PCT/JP2003/009297

Box No. VI* Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2003-346204 A [E, X]	05 December 2003 (05.12.2003)	28 May 2002 (28.05.2002)	
JP 2002-213964 A [E, X]	31 July 2002 (31.07.2002)	12 January 2001 (12.01.2001)	

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

10/521913

DT01 Rec'd PCT/EP 20 JAN 2005

WHAT IS CLAIMED IS:

1. A navigation apparatus, comprising:
position detecting means for detecting a current position of an automotive vehicle;
5 destination setting means for setting a destination of said automotive vehicle;
travel route setting means for setting a travel route to said destination set by said
destination setting means on the basis of said current position detected by said position
detecting means;

operation mode setting means for setting whether or not to utilize an electronic toll
10 collection system on a toll road of said travel route set by said travel route setting means;
and

communication means for performing communication with an in-vehicle apparatus
provided in said automotive vehicle as part of said electronic toll collection system, said
communication means being operative to transmit a signal to said in-vehicle apparatus to
15 change an operation mode of said in-vehicle apparatus to said electronic toll collection
system.

2. (Canceled)

20 3. (Canceled)

4. (Canceled)

25 5. (Canceled)

6. (Canceled)

7. A navigation apparatus as set forth in claim 1, in which
said operation mode setting means includes toll road extracting means for
30 extracting a toll road from the travel route set by the travel route setting unit, and toll road
setting means for setting in each toll road extracted by said toll road extracting means
whether or not an electronic toll collection system is utilized.

35 8. (Canceled)

9. A navigation apparatus, comprising:

position detecting means for detecting a current position of an automotive vehicle;
operation mode setting means for setting whether or not an electronic toll collection
system is utilized on a toll road of said travel route set by said travel route setting means;
and

5 communication means for performing communication with an in-vehicle apparatus
provided in said automotive vehicle as part of said electronic toll collection system, said
communication means being operative to transmit a signal to said in-vehicle apparatus to
change an operation mode of said in-vehicle apparatus to said electronic toll collection
system.

10 10. (Canceled)

11. An in-vehicle apparatus, comprising:

communication means for performing communication with a navigation apparatus;

15 operation mode switching means for switching an operation mode in which an
electronic toll collection system is utilized on the basis of a signal received from said
navigation apparatus by said communication means.

12. A navigation system, comprising:

20 a navigation apparatus as set forth in claim 1; and

an in-vehicle apparatus provided in said automotive vehicle as part of said
electronic toll collection system, and adapted to perform communication with said
communication means of said navigation apparatus.

25 13. (Canceled)

14. (Canceled)

15. (Canceled)

30 16. A navigation system, comprising:

a navigation apparatus as set forth in claim 9; and

an in-vehicle apparatus provided in said automotive vehicle as part of said
electronic toll collection system to perform communication with said communication means
35 of said navigation apparatus.

17. (Canceled)

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